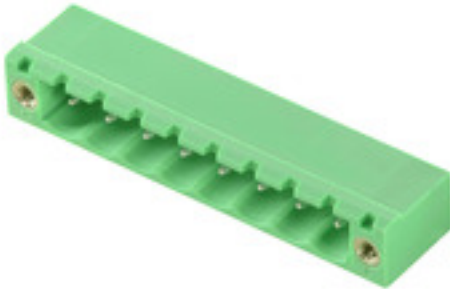


## CH 5.00/06/90F 3.9SN GN BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)



### General ordering data

|              |                                       |
|--------------|---------------------------------------|
| Order No.    | <a href="#">2645220000</a>            |
| Type         | CH 5.00/06/90F 3.9SN GN BX            |
| GTIN (EAN)   | 4050118641752                         |
| Qty.         | 180 pc(s).                            |
| Product data | IEC: 630 V / 15 A<br>UL: 300 V / 15 A |
| Packaging    | Box                                   |

Creation date December 4, 2023 11:18:20 AM CET

Catalogue status 24.11.2023 / We reserve the right to make technical changes.

## CH 5.00/06/90F 3.9SN GN BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Dimensions and weights

Net weight 2.96 g

## System specifications

|                                 |                            |                                |                  |
|---------------------------------|----------------------------|--------------------------------|------------------|
| Product family                  | OMNIMATE basic – Series CH | Type of connection             | Board connection |
| Mounting onto the PCB           | THT solder connection      | Pitch in mm (P)                | 5 mm             |
| Pitch in inches (P)             | 0.197 inch                 | Outgoing elbow                 | 90°              |
| Number of poles                 | 6                          | Number of solder pins per pole | 1                |
| Solder pin length (l)           | 3.9 mm                     | Solder pin dimensions          | 1.0 x 1.0 mm     |
| Solder eyelet hole diameter (D) | 1.6 mm                     | L1 in mm                       | 25 mm            |
| L1 in inches                    | 0.985 inch                 | Number of rows                 | 1                |
| Pin series quantity             | 1                          |                                |                  |

## Material data

|                             |          |                             |            |
|-----------------------------|----------|-----------------------------|------------|
| Insulating material         | PA GF    | Colour                      | Pale green |
| Colour chart (similar)      | RAL 6021 | Insulating material group   | I          |
| UL 94 flammability rating   | V-0      | Contact base material       | Cu-alloy   |
| Contact material            | Cu-alloy | Contact surface             | tinned     |
| Tinning type                | matt     | Storage temperature, min.   | -40 °C     |
| Storage temperature, max.   | 70 °C    | Operating temperature, min. | -40 °C     |
| Operating temperature, max. | 105 °C   |                             |            |

## Rated data acc. to IEC

|   |       |   |       |
|---|-------|---|-------|
| Rated current, min. number of poles (Tu=20°C)                             | 15 A  | Rated voltage for surge voltage class / pollution degree II/2         | 630 V |
| Rated voltage for surge voltage class / pollution degree III/2            | 320 V | Rated voltage for surge voltage class / pollution degree III/3        | 250 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4 kV  | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV  |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV  |   |       |

## Rated data acc. to CSA

|                                   |       |                                   |       |
|-----------------------------------|-------|-----------------------------------|-------|
| Rated voltage (Use group B / CSA) | 300 V | Rated voltage (Use group D / CSA) | 300 V |
| Rated current (Use group B / CSA) | 15 A  | Rated current (Use group D / CSA) | 10 A  |

## Rated data acc. to UL 1059

|                                       |   |                                       |        |
|---------------------------------------|---|---------------------------------------|--------|
| Institute (cURus)                     |  | Certificate No. (cURus)               | E60693 |
| Rated voltage (Use group B / UL 1059) | 300 V   | Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated current (Use group B / UL 1059) | 15 A  | Rated current (Use group D / UL 1059) | 10 A   |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate.              |                                       |        |

## CH 5.00/06/90F 3.9SN GN BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Packing

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 170 mm |
| VPE width | 134 mm | VPE height | 50 mm  |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002637    | ETIM 7.0    | EC002637    |
| ETIM 8.0    | EC002637    | ETIM 9.0    | EC002637    |
| ECLASS 9.0  | 27-44-04-02 | ECLASS 9.1  | 27-44-04-02 |
| ECLASS 10.0 | 27-44-04-02 | ECLASS 11.0 | 27-46-02-01 |
| ECLASS 12.0 | 27-46-02-01 | ECLASS 13.0 | 27460201    |

## Environmental Product Compliance

|            |                                      |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1                       |
| SCIP       | 2f5e7231-4ad1-4dcb-8e0f-b14defbd9d78 |

## Important note

Notes

- Only compatible with OMNIMATE basic products
- P on drawing = pitch
- Rated current related to rated cross-section & min. No. of poles.
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

## Approvals

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate No. (cURus) | E60693     |

## Downloads

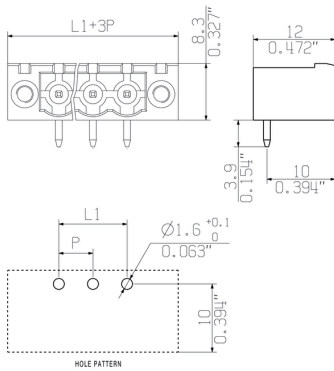
Catalogues [Catalogues in PDF-format](#)

CH 5.00/06/90F 3.9SN GN BX

Weidmüller Interface GmbH & Co. KG  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

Drawings

[www.weidmueller.com](http://www.weidmueller.com)



## Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**  
 Klängenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.